

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/035232 A1

(51) International Patent Classification⁷: **B30B 1/34**, 13/00

[US/US]; 14378 Sperry Road, Newbury, OH 44065 (US).
SANFORD, Bryon, J. [US/US]; 5980 Marine Parkway
E-122, Mentor, OH 44060 (US).

(21) International Application Number:

PCT/US2004/033445

(74) Agent: **HLAVKA, John, R.**; Watts Hoffmann Co., L.P.A.,
P.O. Box 99839, Cleveland, OH 44199-0839 (US).

(22) International Filing Date: 8 October 2004 (08.10.2004)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

English

(26) Publication Language: English

English

(30) Priority Data:
60/509,964 9 October 2003 (09.10.2003) US

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, TZ, UG, ZM,

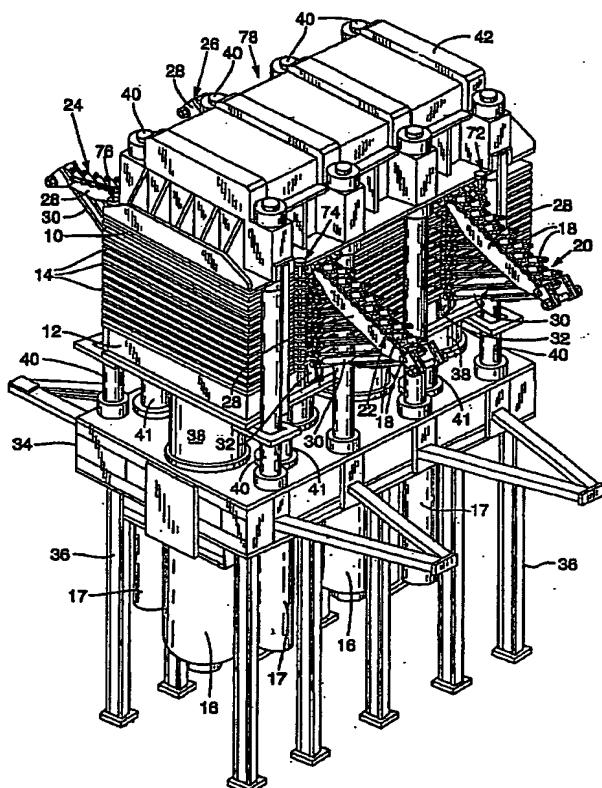
(71) Applicant (for all designated States except US): **THE
COE MANUFACTURING COMPANY** [US/US]; 609
Bank Street, Painesville, OH 44077 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GLASS, Arthur, J.**

(Continued on next page)

(54) Title: PLATEN PRESS



(57) Abstract: A platen press and method for operating a platen press that includes a fixed upper bolster (10) and a lower movable bolster (12) between which is positioned a plurality of platens (14). Fluid operated jack cylinders (17) are used to move the movable bolster to a closed position whereas separate main or clamping cylinders (16) apply a clamping force to the platens when the press is closed. A first source of pressurized fluid (104, 104') supplies pressurized fluid at first pressure to the jack cylinders during a press closing step. A second source of pressurized fluid (134) at a second pressure, lower than the first pressure prefills (via prefill valves (146)) the main cylinders during the closing step. When the press is closed, the communication of the second source of pressurized fluid to the main cylinders is terminated and the first source of pressurized fluid is communicated to the main cylinders in order to generate the clamping force. The first source of pressurized fluid is a high pressure low volume source such as a positive displacement pumps (104, 104') used in connection with an accumulator (172). The second pressurized source is a high volume, low pressure source such as a centrifugal pumps (134), an accumulator (200) fed by a fluid pump (204) or a flow intensifier operated by fluid pump.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.